

last update: 22 May 2009

GORDON A.H. WALKER (b 30 January 1936)

CURRENT RESEARCH INTERESTS

I took early retirement in 1998 but continue to be active in research and, since retirement I have supervised one successful PhD student, Evgena Shkolnik. Currently, my principal research involves data returned by the *MOST* (Microvariability & Oscillations of STars) photometric satellite for which I contributed the experimental design [refereed publication 116]. The satellite was launched in 2003 and continues to produce photometry of very high fidelity. Continuous monitoring for weeks at a time lets one detect and resolve the frequencies of natural oscillation and their harmonics for a variety of stars leading to plausible models of internal structure. My first interest was in the hottest emission line stars where models have now been fitted convincingly in terms of the κ -mechanism associated with the Fe-opacity-bump [eg. refereed publications 123, 128].

I am now particularly interested in the differential rotation of solar-type stars which is a basis for dynamo action and which has implications for magnetic interaction of parent stars with planets in those cases where the planet is very close to the star [ref pub 122]. *MOST* photometry has allowed us for the first time to track pairs, and sometimes triple, star spots simultaneously as they rotate at different periods which depend on their stellar latitude and also detect weak signals from interaction of close planets with the magnetospheres of their parent stars [see ref pub 136, 140].

Three stars, whose radial velocities my group began to monitor more than twenty-five years ago for perturbation by companion planets, have proved to indeed have long-period planets based on subsequent observations [ref pub 161]. I have a continuing interest in extra-solar planet detection and collaborate with more than one group.

Large carbon-based, probably cyclical, molecules are the most likely candidates producing the profusion of (diffuse interstellar) absorption bands in the spectra of stars seen through clouds of interstellar dust. A Swiss colleague is taking laboratory spectra of increasingly complex molecules at very low temperatures in his lab and together with a colleague at the HIA I search for them in the stellar spectra, so far without success except for C₃ [ref pub 111]. This remains one of the longest unsolved problems in science.

I have a continuing strong interest in astronomical instrumentation, spectrographs in particular, and regularly act in an advisory role.

POST-SECONDARY EDUCATION

University of Edinburgh Hon.B.Sc. 1958
University of Cambridge Ph.D. 1962

PROFESSIONAL EMPLOYMENT

Radcliffe Observatory, Pretoria	Research Assistant	1960-61
DAO, Victoria	NRC Fellow	1962-64
DAO, Victoria	Research Scientist II	1964-69
University of Texas	Visiting Lecturer	1965 (Spring)
University of Victoria	Visiting Lecturer	1966 (Spring)
UBC	Associate Professor	April 1, 1969
	Director, IASS	1972-78
	Professor	July 1, 1974-98
	Professor Emeritus	July 1 1998-
HIA/NRC	Guest-worker	1998-
UVic	Adjunct Professor	April 23 2004

INTERNATIONAL PROJECTS

Scientific Advisory Committee of the CFHT 1972-79

Project Scientist for 'Starlab' an Australian, Canadian, NASA, space telescope proposal until Canada withdrew in 1984

CFHT Board of Directors 1986-91

Canadian Project Scientist (1989-90): EUVITA - far ultraviolet astronomical satellite experiment joint with USSR, Switzerland, USA.

Canadian Project Scientist (1990-97): Gemini - twin 8 metre optical telescopes (1 in Hawaii, 1 in Chile) joint with USA, U.K., Chile, Australia, Argentina, Brazil.

Gemini Scientific Advisory Committee 1991-97

Gemini Board of Directors 1991-97

MOST Science team (1997–): a Canadian satellite launched in 2003 for ultra-precise photometry of bright stars, with collaboration from Austria.

Gemini/NSF Visiting Committee 2004

AURA Source Selection Board for future Gemini Instrumentation 2004

TMT - chair HROS Review Panel 2005

chair Gemini Source Selection Board for HRNIRS 2005

chair Gemini Source Selection Board for PRVS 2006

Graduate Students Supervised

	Program	Start	Finish		Program	Start	Fi
Isherwood, B.C.	M.Sc.		1971	Goldberg, B.A.	Ph.D.		19
Buchholz, V.	M.Sc.		1972	Mochnecki, S.	Ph.D.		19
Thompson, H.I.	M.Sc.		1974	Condal, A.	Ph.D.		19
Allison, A.M.	M.Sc.		1976	Ninkov, Z.	Ph.D.	1979	19
Lester, T.	M.Sc.		1977	Yang, S.	Ph.D.	1980	19
Yang, S.	M.Sc.	1977	1980	Kennelly, E.	Ph.D.	1990	19
Millward, C.G.	M.Sc.	1981	1983	Burley, G.	Ph.D.	1991	19
Fraser, G.	M.Sc.	1982	1985	Chapman, S.	Ph.D	1996	19
Hill, G.M.	M.Sc.	1986	1988	Shkolnik, E.	Ph.D	2001	20
Kennelly, E.	M.Sc.	1988	1990				
Dinshaw, N.	M.Sc.	1989	1991				
Walker, A.	M.Sc.	1991	1993				
Jiang, Y.	M.Sc.	1991	1993				
Chapman, S.	M.Sc.	1995	1996				

AWARDS

Royal Society of Canada, Academy III (elected 1975)

Killam Senior Fellowship (1974-75)

Killam Senior Fellowship (1981-82)

Deutsche Forschungsgemeinschaft bilateral exchange (1988-89)

Muhlmann Prize for scientific work at Mauna Kea Observatory - together with S. Yang and B. Campbell (1989)

Carlyle S. Beales award of the CASCA for a lifetime of innovative research (1998)

I. REFEREED PUBLICATIONS

1. Walker, G.A.H., 1961, "Photoelectric Measurements of the 3883 Å CN band", Observatory 80:233-.
2. Walker, G.A.H., 1962, "The Ratio of Total to Selective Absorption", Observatory 82:52-.
3. Walker, G.A.H., 1962, "Photoelectric Measures of the 4430 Å Diffuse Interstellar Absorption Band", MNRAS 125:141-.
4. Walker, G.A.H., 1963, "The Ratio of Total to Selective Absorption for the Orion Nebula", Astrophys. J. 140:1613-.
5. Walker, G.A.H., 1963, "The Cepheus IV Association", Ap. J. 141:660-.
6. Walker, G.A.H., 1965, "Optical Observations Related to Radio Astronomy", Trans. R.S. Canada III Ser. IV, 431-.
7. Underhill, A.B. and Walker, G.A.H., 1966, "The Shape of the Interstellar Reddening Curve", MN 131:475-.
8. Walker, G.A.H. and Hodge, S.G., 1966, "Equivalent Widths and Half Widths of the 4388 and 4471 He I Lines, Rotational Velocities and 4430 Central Depths for 450 O to B5 Stars", D.A.O. Pub. XLL No. 14.
9. Walker G.A.H., 1966, "The Extended Wings of the λ 4430 Interstellar Absorption Band", Observatory 86:117-.
10. Deeming, T.J. and Walker, G.A.H., 1967, "Helium in the Galactic Disc B Stars", Nature 213:479-.
11. Deeming, T.J. and Walker, G.A.H., 1967, "Measures of Interstellar λ 4430 Absorption" Z.F. Ap. 66 175-184.
12. Deeming, T.J. and Walker, G.A.H., 1967, "H γ and He I Lines in O9-B5 Spectra", Z.F. Ap. 66:475-.
13. Deeming, T.J. and Walker, G.A.H., 1967, "Variable Interstellar λ 4430 Absorption", Observatory 88:167-.

14. Walker, G.A.H. and Hodge, S.M., 1968, "Spectral Types and $H\gamma$ Observations for Stars in Eight Associations", Publications of the Astron. Soc. of the Pac. 80:290-.
15. Walker, G.A.H. and Morris, S.C., 1968, "H γ Observations for Fourteen of Feige's Faint Blue Stars", P.A.S.P. 80:238-.
16. Walker, G.A.H., 1969, "Studies of the Interstellar Medium at the D.A.O.", RASC J. 62:361-.
17. Walker, G.A.H. and Morris, S.C., 1968, "U B V Photometry of Anon b4 and NGC 2081 in the LMC", A.J. 73:772-.
18. Walker, G.A.H., Morris, S.C. and Younger, P.F., 1969, "Photoelectric Scanner Observations of CH Cygni for August 3, 1967", Ap. J. 156:117-.
19. Walker, G.A.H., Hutchings, J.B. and Younger, P.F., 1969, "Interstellar Extinction Anomalies and the Diffuse Interstellar Bands", A.J. 74:1061-1066.
20. Walker, G.A.H., Andrews, D., Hill, G., Morris, S.C., Smyth, W. and White, J., 1970, "A Four-Channel Five-Colour Photometer", D.A.O. Publications XIII, Pt. 17 415-425.
21. Walker, G.A.H., Auman, J.R., Buchholz, V., Goldberg, B., and Isherwood, B., 1971, "Direct Analysis of Spectra by Image Isocon and Computer", Publications of the Roy. Observ. Edinburgh 8:86- .
22. Hill, G., Morris, S.C. and Walker, G.A.H., 1971, "Standard Stars for the Five-Colour Photometric System of the Dominion Astrophysical Observatory", A.J. 76:246-251.
23. Hutchings, J.B., Walker, G.A.H., Auman, J.R. and Gower, A.C., 1971, "Ultrarapid Activity at $H\alpha$ in the Spectra of Be Stars", Ap. J. Lett. 170:73-76.
24. Ulrych, T.J., Auman, J.R., Eilek, J.A. and Walker, G.A.H., 1972, "Resolution Enhancement of Astronomical Spectra", Astron. and Astrophys., 21:125-130.
25. Walker, G.A.H., Auman, J.R., Buchholz, V.L., Goldberg, B.A., Gower, A.C., Isherwood, B.C., Knight, R., Wright, D., 1972, "Application of an Image Isocon and Computer to Direct Digitisation of Astronomical Spectra", Adv. in E.E.P. 33B:819-834 (London, Academic Press).

26. Hutchings, J.B., Crampton, D., Glaspey, J., Walker, G.A.H., 1973, "Optical Observations and Model for Cygnus X-1", Ap. J. 182:549-557.
27. Glaspey, J.W. and Walker, G.A.H., 1973, "A Search for Rapid Spectral Variations in 10 Lacertae", PASP 85:188-190.
28. Eilek, J.A., Auman, J.R., Ulrych, T.J., Walker, G.A.H., 1973, "On the Emission Lines of N.G.C. 1068", Ap. J. 182:363-386.
29. Walker, G.A.H., Buchholz, V., Fahlman, G.G., Glaspey, J.W., 1973, "H α Observations of Algol on 2nd September 1972", Astron. J. 78, No. 8.
30. Hutchings, J.B., Cowley, A.P., Crampton, D., Fahlman, G.G., Glaspey, J.W., and Walker, G.A.H., 1974, "H-Alpha emission in Cygnus X-1", Ap. J. 191, 738-748.
31. Walker, G.A.H., Buchholz, V.L., Camp, D., Isherwood, B., Glaspey, J., Coutts, R., Condal, A., and Gower, J., 1974, "A compact multichannel spectrometer for field use", Rev. Sci. Instr. 45, 1349-1352.
32. Goldberg, B.A., Walker, G.A.H., Odgers, G.J., 1974, Variations in the spectrum of β Cephei. Astron. and Ap. 32, 355-362.
33. Fahlman, G.G., Walker, G.A.H., 1976, "Differential interstellar polarisation in the region of λ 6284 for HD183143", Ap.J., 200, 22-29.
34. Eilek, J.A., Walker, G.A.H., 1976, "Variable Ca II H and K emission in the spectrum of λ Andromedae", PASP 88, 137-140.
35. Goldberg, B.A., Walker, G.A.H., Odgers, G.J., 1976, "The variations of BW Vulpeculae", A.J. 81, 433-444.
36. Glaspey, J.W., Walker, G.A.H., Stockton, A., 1976, "Spectroscopic observations of Seyfert galaxy nuclei", Ap.J. 200, 27-32.
37. Hutchings, J.B., Walker, G.A.H., 1976, "13.9 minute periodicity in X Persei (=3U 0352 +30?)", PASP 88, 754-758.
38. Fahlman, G.G., Carlberg, R.G., Walker, G.A.H., 1977, "Spectrum variations of the x-ray binary HD153919=3U 1700-37", Ap.J. 217, 35-39.
39. Mochnacki, S.W., Walker, G.A.H., 1978, "BVR photometry of M15", PASP 90, 379-385.

40. Walker, G.A.H., Yang, S., Glaspey, J.W., 1978., "HeII (λ 4686) emission in the spectrum of HDE 226868 (Cyg X-1)", Ap.J. 226, 976-983
41. Walker, G.A.H., Speers, G.E., Pritchett, C., Glaspey, J.W., 1979, "Variations in the hydrogen emission lines of Nova V1500 Cygni", PASP 91, 446-451.
42. Campbell, B., Walker, G.A.H., 1979, "Precision radial velocities with an absorption cell", PASP 91, 540-545.
43. Walker, G.A.H., Yang, S., Fahlman, G.G., 1979, "Spectral variations in ζ Ophiuchi related to rotation", Ap.J. 233, 199-204.
44. Walker, G.A.H., Yang, S., Fahlman, G.G., Witt, A.N., 1980, "The extinction of HD 200775 by dust in NGC 7023", PASP 92, 411-417.
45. Fahlman, G.G., Walker, G.A.H., 1980, "The spectrum variations of HD 153919", Ap.J. 240, 169-179.
46. Condal, A., Fahlman, G.G., Walker, G.A.H., Glaspey, J.J., 1981, "The reddening and near-infrared spectrum of NGC 7027", PASP 93, 191-201.
47. Condal, A., Pritchett, C., Fahlman, G.G., Walker, G.A.H., 1981, "Ionisation structure and partial obscuration of the planetary nebulae NGC 3132 and 3242", PASP 93, 695-702.
48. Kjærgaard, P., Walker, G.A.H., Yang, S., 1981, "Spectra of the red (2,0) CN band in 31 G and K giant stars", A. and A. Supp. Ser. 46, 375-388.
49. Hickson, P., Fahlman, G.G., Auman, J.R., Walker, G.A.H., Menon, T.K., Ninkov, Z., 1982, "CCD photometry of Markarian 421 and 501", Ap.J. 258, 53-58.
50. Yang, S., Walker, G.A.H., Fahlman, G.G., Campbell, B., 1982, "Radial velocity variations of the δ Scuti variable β Cassiopeiae", PASP 94, 317-321.
51. Walker, G.A.H., Moyles, K., Yang, S., Fahlman, G.G., 1982, "The line profile variations of Spica", PASP 94, 143-148.
52. Witt, A.N., Walker, G.A.H., Bohlin, R.C., Stecher, T.P., 1982, "The scattering phase function of interstellar grains: the case of the reflection nebula NGC 7023", Ap.J. 261, 492-509.

53. Kjærgaard, P., Gustafsson, B., Walker, G.A.H., Hultquist, L., 1982, "Carbon, nitrogen and oxygen abundances in G8-K3 giant stars", *A. and A.* 115, 145-163.
54. Millward, C.G., Walker, G.A.H., 1985, An empirical $H\gamma$ -luminosity calibration for class V-III stars, *Ap.J. Supp.*, 57, 63-76.
55. Walker, G.A.H., Millward, C.G., 1985, "A convincing M_V - $W(H\gamma)$ calibration for A and B supergiants", *Ap.J.*, 289, 669-675.
56. Hill, G.M., Walker, G.A.H., Yang, S., 1986, "The M_V - $W(H\gamma)$ calibration for 06 to A3 supergiants", *PASP*, 98, 1186-92.
57. Yang, S., Walker, G.A.H., 1986, "Radial velocity variations of the Delta-Scuti star 20 CVn.", *PASP*, 98, 862-6.
58. Yang, S., Walker, G.A.H., 1986, "Nonradial oscillations of the Delta-Scuti star σ^1 Eri", *PASP*, 98, 1156-1161 .
59. Krelowski, J., Walker, G.A.H., 1987, "Three families of diffuse interstellar bands", *Ap.J.*, 312, 860-7.
60. Krelowski, J., Walker, G.A.H., Grieve, G.R., Hill, G., 1987, "Interdependence of the 4430Å diffuse interstellar band, polarisation, and uv extinction", *Ap.J.*, 316, 449-457.
61. Ninkov, Z., Walker, G.A.H., Yang, S., 1987, "The primary orbit and absorption lines of HDE 226868 (Cynus X-1)", *Ap.J.*, 321, 425-437.
62. Ninkov, Z., Walker, G.A.H., Yang, S., 1987, "The He II 4686Å and $H\alpha$ emission lines of Cygnus X-1", *Ap.J.*, 321 438-446.
63. Ninkov, Z., Yang, S., Hill, G.M., Walker, G.A.H., 1987, "New emission lines in the spectra of 0 and 0f stars", *PASP* 99, 284-287.
64. Yang, S., Walker, G.A.H., Bennett, P., 1987, "The spectral variations of Rho Puppis", *PASP* 99, 425-438.
65. Walker, G.A.H., Yang, S., Fahlman, G.G., 1987, "Discovery of high-degree nonradial oscillations in rapidly rotating δ Scuti stars", *Ap.J. Letters*, 320, L139-L144.

66. Matthews, J.M., Wehlau, W.H., Walker, G.A.H., Yang, S., 1988, "Detection of radial velocity variations in the rapidly oscillating Ap star HR1217", Ap.J. 324, 1099-1105.
67. Yang, S., Ninkov, Z., Walker, G.A.H., 1988, "Nonradial oscillations of the Be star γ Cassiopeiae", PASP 100, 233-242.
68. Hill, G.M., Walker, G.A.H., Dinshaw, N., Yang, S., Harmanec, P., 1988, "Omicron Andromedae is Quadruple", PASP, 100, 243-250.
69. Campbell, B.E., Walker, G.A.H., Yang, S., 1988, "A search for substellar companions to solar type stars", Ap.J. 331, 902-921.
70. Hill, G.M., Walker, G.A.H., Yang, S., Harmanec, F., 1989, "Line profile variations and dimensions of the Be star σ Andromedae", PASP, 101, 258-273.
71. Irwin, A.W., Campbell, B., Moreby, C.L., Walker, G.A.H., Yang, S., 1989, "Long-period radial-velocity variations of Arcturus", PASP, 101, 147-159.
72. Walker, G.A.H., Yang, S., Irwin, A.W., Campbell, B., 1989, "Yellow Giants: a new class of radial-velocity variable", Ap.J. Letters, 343, L21-24.
73. Dinshaw, N., Matthews, J.M., Walker, G.A.H., Hill, G.M., 1989, "The radial velocity variations of Polaris: a Cepheid leaving the instability strip?", A.J., 98, 2249-2263.
74. Yang, S., Walker, G.A.H., Hill, G.M., Harmanec, P., 1990, "Rapid line profile variations of the Be star ξ Tauri", Ap.J. Suppl., 74, 595-608.
75. Matthews, J.M., Wehlau, W.H., Walker, G.A.H., 1990, "Rapid infrared photometry of pulsating Ap stars: a measurement of stellar limb darkening", Ap.J. Letters, 365, L81-84.
76. Walker, G.A.H., Johnson, R., Richardson, D., Campbell, B., Yang, S., 1990, "Cross-talk in 1872 Reticon diode arrays", PASP 102, 1418-9.
77. Harmanec, P., Matthews, J.M., Wehlau, W.H., Bohlender, D.A., Walker, G.A.H., Yang, S., et al., 1991, "Properties and nature of Be stars: 15. Light variations of LQ And and its check stars revisited", Bull. Astron. Inst. Czech, 42, 1-16.

78. Matthews, J.M., Harmanec, P., Walker, G.A.H., Yang, S., Wehlau, W.H., 1991, "Spectroscopic variations of the Be star LQ And: Binarity and Rotation", MNRAS 248, 787-803.
79. Hill, G.M., Walker, G.A.H., Yang, S., 1991, "Line profile variability of the Be star κ Draconis", A & A 246, 146-152.
80. Kennelly, E.J., Walker, G.A.H., Hubeny, I., 1992., "A nonradial pulsation model for the rapidly rotating δ Scuti star κ^2 Bootis", PASP 103, 1250-7
81. Kennelly, E.J., Yang, S., Walker, G.A.H., Hubeny, I., 1992, "Detection of high-degree nonradial pulsations in γ Bootis", PASP 104, 15-22.
82. Irwin, A., Yang, S., Walker, G.A.H., 1992, "A precise radial velocity determination of the orbit of χ^1 Orionis", PASP 104, 101-105.
83. Irwin, A.W., Fletcher, J.M., Yang, S., Walker, G.A.H., Goodenough, C., 1992, "The orbit and mass of Procyon", PASP 104, 489-499.
84. Walker, G.A.H., Bohlender, D.A., Walker, A.R., Irwin, A.W., Yang, S.L.S., Larson, A., 1992, " γ Cephei: rotation or planetary companion?", Ap.J. Letters, 396, 91-94.
85. Kennelly, E.J., Walker, G.A.H., Merryfield, W.J., 1992, " τ Pegasi: a Fourier representation of line-profile variations", Ap.J. Letters, 400, 71-74.
86. Bohlender, D.A., Irwin, A.W., Yang, S.L.S., Walker, G.A.H., 1992, "Precise ΔT_{eff} and $\Delta(R-I)$ for Solar-type stars", PASP 104, 1152-1159.
87. Larson, A.M., Irwin, A.W., Yang, S.L.S., Goodenough, C., Walker, G.A.H., Walker, A.R., Bohlender, D.A., 1993., "The Ca λ 8662 index of chromospheric activity: the case of 61 Cygni A", PASP 105, 332-6
88. Walker, G., Dinshaw, N., Saddlemyer, L., Younger, F., 1993, "Spectropolarimetry with a cube beam splitter", Experimental Astronomy, 2, 391-398.
89. Larson, A.M., Irwin, A.W., Yang, S.L.S., Goodenough, C., Walker, G.A.H., Walker, A.R., 1993, "A low-amplitude periodicity in the radial velocity and chromospheric emission of β Geminorum", PASP 105, 825-831.

90. Kambe, E., Ando, H., Hirata, R., Walker, G.A.H., Kennelly, E.J., Matthews, J.M., 1993, "Line profile variation of λ Eri in emission and quiescence", PASP 105, 1222-1231.
91. Bohlender, D.A., Walker, G.A.H., 1994, "131 Tau: another λ Bootis star with a shell", Mon. Not. R. Astron. Soc. 266, 891-896.
92. Walker, G.A.H., Walker, A.R., Racine, R., Fletcher, J.M., McClure, R.D., 1994, "Direct imaging of faint stellar companions", PASP, 106, 356-362.
93. Hickson, P., Borra, E.F., Cabanac, R., Content, R., Gibson, B., Walker, G.A.H., 1994, "UBC/Laval 2.7 meter liquid mirror telescope", Ap.J. (Letters), 436, L201-L204.
94. Tarasov, A.E., Harmanec, P., Horn, J., Lyubinkov, L.S., Rostopchin, S.I., Koubsky, P., Blake, C., Kostuvin, V.V., Walker, G.A.H., Yang, S., 1995, "The archetype line-profile variable ϵ 45 Per is a spectroscopic triple system", A and A, Supplement Series, 110, 59-79.
95. Blake, C.C., Marlborough, J.M., Walker, G.A.H., Fahlman, G.G., 1995, "HeI λ 5876 line profile variations in the massive x-ray binary system HD 153919/4U 1700-37", 1995, A.J., 109, 2698-2705.
96. Walker, G.A.H., Walker, A.R., Irwin, A.W., Larson, A.M., Yang, S.L.S., Richardson, D., 1995, "A search for Jupiter-mass companions to nearby stars", Icarus, 116, 359-375
97. Harmanec, P., Morand, F., Bonneau, D., Jiang, Y., Yang, S., Guinan, E.F., Hall, D.S., Mourard, D., Hadrava, P., Božić, H., Sterken, C., Tallon-Bosc, I., Walker, G.A.H., McCook, G.P., Vakili, F., Stee, Ph., Le Contel, J.M., 1996, Jet-like structures in β Lyrae, A&A, 312, 879-896.
98. Matthews, J.M., Wehlau, W.H., Rice, J., Walker, G.A.H., 1996, Opening a new window on Ap star atmospheres: a T- τ relation for HR3831 from its limb-darkened pulsation amplitudes, Ap.J., 459, 278-287.
99. Kennelly, E.J., Walker, G.A.H., 1996, The line-profile variations of θ^2 Tau, PASP, 108, 327-331.
100. Irwin, A.W., Yang, S.L.S., Walker, G.A.H., 1996, 36 Ophiuchi AB: incompatibility of the orbit and precise radial velocities, PASP, 108, 580-590.

101. Burley, G.S., Chapman, S., Walker, G.A.H., Parameswaran, A., 1996, A precisely aligned CCD mosaic, *PASP*, 108, 1024-1027.
102. Kambe, E., Hirata, R., Ando, H., Cuypers, J., Katoh, M., Kennelly, E.J., Walker, G.A.H., Štefl, S., Tarasov, A.E., 1997, Multiperiodicity of ζ Ophiuchi from multisite observations, *Ap.J.*, 481, 406-419.
103. Burley, G.S., Walker, G.A.H., Johnson, R., 1998, A versatile CCD wave front curvature sensor, *PASP*, 110, 330-338.
104. Burley, G.S., Stilburn, J.R., Walker, G.A.H., 1998, Membrane mirror and bias electronics, *Applied Optics* 21, 4649-4655.
105. Racine, R., Walker, G.A.H., Nadeau, D., Doyon, R., Marois, C., 1999, Speckle noise and the detection of faint companions, *PASP*, 111, 587-594.
106. Motylewski, T., Linnartz, H., Vaizert, O., Maier, J.P., Galautdinov, G.A., Musaev, F.A., Krelowski, J., Walker, G.A.H., Bohlender, D.A., 2000, Gas phase electronic spectra of carbon chain radicals compared with diffuse interstellar band observations, *Ap.J.*, 531, 312-320.
107. Walker, G.A.H., Bohlender, D.A., Krelowski, J., 2000, Further evidence for Carbon isotope structure in the λ 5795 and λ 6614 diffuse interstellar bands, *Ap.J.*, 350, 362 - 370.
108. Galautdinov, G.A., Musaev, F.A., Krelowski, J., Walker, G.A.H., 2000, Narrow diffuse interstellar bands - a survey with precise wavelengths, *PASP*, 112, 648-690.
109. Hatzes, Artie P.; Cochran, William D.; McArthur, Barbara; Baliunas, Sallie L.; Walker, Gordon A. H.; Campbell, Bruce; Irwin, Alan W.; Yang, Stephen; Kürster, Martin; Endl, Michael; Els, Sebastian; Butler, R. Paul; Marcy, Geoffrey W.; 2000, Evidence for a Long-Period Planet Orbiting ϵ Eridani, *Ap.J.*, 544, L145–L148.
110. Chapman, Scott C.; Morris, Simon L.; Walker, Gordon A. H.; 2000, Near-infrared adaptive optics imaging of nuclear spiral structure in the Seyfert galaxy NGC 3227, *MNRAS*, 319, 666–676.
111. Maier, John P.; Lakin, Nicholas M.; Walker, Gordon A. H.; Bohlender, David A.; 2001, Detection of C₃ in Diffuse Interstellar Clouds, *Ap.J.*, 553, 267–273.

112. Baudrand, Jacques, Walker, Gordon A.H., 2001, Modal noise in high-resolution, fibre-fed spectra: a study and a simple cure, *PASP*, 113, 851–858.
113. Walker, Gordon A.H., Webster, Adrian S., Bohlender, David A., Krelowski, Jacek, 2001, Profiles of the $\lambda\lambda 6196$ and 6379 Diffuse Interstellar Bands, *Ap.J.*, 561, 272–281.
114. Maier, J.P., Walker, G.A.H., Bohlender, D.A. 2002, Limits to interstellar C_4 and C_5 towards ζ Ophiuchi, *Ap.J.*, 566, 332–335.
115. Walker, G.A.H., Shkolnik, E., Bohlender, D.A., Yang, S., 2003, The Radial Velocity Precision of Fiber-fed Spectrographs, *PASP*, 115, 700–705.
116. Walker, G., Matthews, J., Kuschnig, R., Johnson, R., Rucinski, S., Pazder, J., Burley, G., Walker, A., Skaret, K., Zee, R., Grocott, S., Carroll, K., Sinclair, P., Sturgeon, D., Harron, J., 2003, The MOST Asteroseismology Mission: Ultraprecise Photometry From Space, *PASP*, 115, 1023–1035.
117. Shkolnik, E., Walker, G.A.H., Bohlender, D.A., 2003, Evidence for Planet-induced Chromospheric Activity on HD 179949, *Ap.J.*, 597, 1092–1096.
118. Hatzes, A.P., Cochran, W.D., Endl, M., McArthur, B., Paulson, D.B., Walker, G.A.H., Campbell, B., Yang, S., 2003, A Planetary Companion to γ Cephei A, *Ap.J.*, 599, 1383–1394.
119. Maier, J.P., Walker, G.A.H., Bohlender, D.A., 2003, On the possible role of Carbon chains as carriers of diffuse interstellar bands, *Ap.J.*, 602, 286–290.
120. Matthews, Jaymie M.; Kuschnig, Rainer; Guenther, David B.; Walker, Gordon A. H.; Moffat, Anthony F. J.; Rucinski, Slavek M.; Sasselov, Dimitar; Weiss, Werner W., 2004, No stellar p-mode oscillations in space-based photometry of Procyon, *Nature*, 430, Issue 6995, 51–53.
121. Rucinski, Slavek M.; Walker, Gordon A. H.; Matthews, Jaymie M.; Kuschnig, Rainer; Shkolnik, Evgenya; Marchenko, Sergey; Bohlender, David A.; Guenther, D. B.; Moffat, Anthony F. J.; Sasselov, Dimitar; Weiss, Werner W., 2004, Differential Rotation of the Active G5 V Star κ_1 Ceti: Photometry from the MOST Satellite, *PASP*, 116, 1093–1104.
122. Shkolnik, E.; Walker, G. A. H.; Bohlender, D. A.; Gu, P.-G.; Kürster, M., 2005, Hot Jupiters and Hot Spots: The Short- and Long-Term Chromospheric Activity on Stars with Giant Planets *ApJ*, 622, 1075–1090.

123. Walker, G. A. H.; Kuschnig, R.; Matthews, J. M.; Reegen, P.; Kallinger, T.; Kambe, E.; Saio, H.; Harmanec, P.; Guenther, D. B.; Moffat, A. F. J.; Rucinski, S. M.; Sasselov, D.; Weiss, W. W.; Bohlender, D. A.; Bozic, H.; Hashimoto, O.; Koubský, P.; Mann, R.; Ruzdjak, D.; Skoda, P.; Slechta, M.; Sudar, D.; Wolf, M.; Yang, S., 2005, Pulsations of the Oe Star ζ Ophiuchi from MOST Satellite Photometry and Ground-based Spectroscopy, *ApJ Lett.*, 623, L145–L148.
124. Shkolnik, Evgenya; Walker, Gordon A. H.; Rucinski, Slavek M.; Bohlender, David A.; Davidge, Tim J., 2005, Investigating Ca II Emission in the RS Canum Venaticorum Binary ER Vulpeculae Using the Broadening Function Formalism, *AJ*, 130, 799–808.
125. Randall, S. K.; Matthews, J. M.; Fontaine, G.; Rowe, J.; Kuschnig, R.; Green, E. M.; Brassard, P.; Chayer, P.; Guenther, D. B.; Moffat, A. F. J.; Rucinski, S.; Sasselov, D.; Walker, G. A. H.; Weiss, W. W., 2005, Detection of Long-Period Variations in the Subdwarf B Star PG 0101+039 on the Basis of Photometry from the MOST Satellite *ApJ.*, 633, 460–464.
126. Lefèvre, L.; Marchenko, S. V.; Moffat, A. F. J.; Chené, A. N.; Smith, S. R.; St-Louis, N.; Matthews, J. M.; Kuschnig, R.; Guenther, D. B.; Poteet, C. A.; Rucinski, S. M.; Sasselov, D.; Walker, G. A. H.; Weiss, W. W., 2005, Oscillations in the Massive Wolf-Rayet Star WR 123 with the MOST Satellite, *ApJ Lett.*, 634, L109–L112.
127. Guenther, D. B.; Kallinger, T.; Reegen, P.; Weiss, W. W.; Matthews, J. M.; Kuschnig, R.; Marchenko, S.; Moffat, A. F. J.; Rucinski, S. M.; Sasselov, D.; Walker, G. A. H., 2005, Stellar Model Analysis of the Oscillation Spectrum of η Bootis Obtained from MOST, *ApJ*, 635, 547–559.
128. Walker, G. A. H.; Kuschnig, R.; Matthews, J. M.; Cameron, C.; Saio, H.; Lee, U.; Kambe, E.; Masuda, S.; Guenther, D. B.; Moffat, A. F. J.; Rucinski, S. M.; Sasselov, D.; Weiss, W. W., 2005, MOST detects g-modes in the Be Star HD 163868, *ApJ Lett.*, 635, L77–L80.
129. Maier, John P. Boguslavskiy, Andrey E., Ding Hongbin, Walker, Gordon A.H., Bohlender, David A, 2006, The Gas Phase Spectrum of Cyclic C₁₈ and the Diffuse Interstellar Bands, *ApJ*, 640, 369–372.

130. Reegen, P.; Kallinger, T.; Frast, D.; Gruberbauer, M.; Huber, D.; Matthews, J. M.; Punz, D.; Schraml, S.; Weiss, W. W.; Kuschnig, R.; J. Moffat, G. A. H. Walker, D. B. Guenther, S. M. Rucinski, D. Sasselov, 2006, Reduction of time-resolved space-based CCD photometry developed for MOST Fabry Imaging data, *MNRAS*, 367, 1417–1431.
131. Aerts, C.; Marchenko, S. V.; Matthews, J. M.; Kuschnig, R.; Guenther, D. B.; Moffat, A. F. J.; Rucinski, S. M.; Sasselov, D.; Walker, G. A. H.; Weiss, W. W., 2006, delta Ceti Is Not Monoperiodic: Seismic Modeling of a beta Cephei Star from MOST Space-based Photometry, *ApJ*, 642, 470–477.
132. Aerts, C.; De Cat, P.; Kuschnig, R.; Matthews, J. M.; Guenther, D. B.; Moffat, A. F. J.; Rucinski, S. M.; Sasselov, D.; Walker, G. A. H.; Weiss, W. W., 2006, Discovery of the New Slowly Pulsating B Star HD 163830 (B5 II/III) from MOST Space-based Photometry, *ApJ Lett*, 642, L165–L168.
133. Benedict, G. Fritz, Barbara E. McArthur, George Gatewood, Edmund Nelan, William D. Cochran, Artie Hatzes, Michael Endl, Robert Wittenmyer, Sallie L. Baliunas, Gordon A. H. Walker, Stephenson Yang, Martin Kürster, Sebastian Els, and Diane B. Paulson, 2006, The Extrasolar Planet ϵ Eridani b - Orbit and Mass, *AJ*, 132, 2206–2218.
134. Wittenmyer, Robert A.; Endl, Michael; Cochran, William D.; Hatzes, Artie P.; Walker, G. A. H.; Yang, S. L. S.; Paulson, Diane B., 2006, Detection Limits from the McDonald Observatory Planet Search Program, *AJ*, 132, 177–188.
135. Rowe, J.F., J.M. Matthews, S. Seager, R. Kuschnig, D.B. Guenther, A.F.J. Moffat, S.M. Rucinski, D. Sasselov, G.A.H. Walker, W.W. Weiss, 2006, An Upper Limit on the Albedo of HD 209458b: Direct Imaging Photometry with the *MOST* Satellite, *ApJ*, 646, 1241–1251.
136. Croll Bryce, Gordon A.H. Walker, Rainer Kuschnig, Jaymie M. Matthews, Jason F. Rowe, Andrew Walker, Slavek M. Rucinski, Artie P. Hatzes, William D. Cochran, Russell M. Robb, David B. Guenther, Anthony F.J. Moffat, Dimitar Sasselov, Werner W. Weiss, 2006, Differential rotation of ϵ Eridani detected by *MOST*, *ApJ*, 648, 607–613.
137. Hatzes A. P., W. D. Cochran, M. Endl, E. W. Guenther, S. H. Saar, G.A.H. Walker, S. Yang, M. Hartmann, M. Esposito, and D. B. Paulson, 2006, Con-

- firmation of the Planet Hypothesis for the Long-period Radial Velocity Variations of β Geminorum, *A&A*, 457, 335–341.
138. Saio H., R. Kuschnig, A. Gautschy, C. Cameron, G.A.H. Walker, J.M. Matthews, D. B. Guenther, A.F.J. Moffat, S.M. Rucinski, D. Sasselov, W.W. Weiss, 2006, *MOST* detects g- and p-modes in the B supergiant HD 163899 (B2Ib/II), *ApJ*, 650, 1111–1118.
139. Saio H., R. Kuschnig, G.A.H. Walker, J.M. Matthews, C. Cameron, J.F. Rowe, D.B. Guenther, A.F.J. Moffat, S.M. Rucinski, D. Sasselov, W.W. Weiss, 2007, *MOST* Detects g-modes in the late-type Be star β CMi (B8Ve), *ApJ*, 654, 554–550.
140. Walker, Gordon A.H., Bryce Croll, Rainer Kuschnig, Andrew Walker, Slavek M. Rucinski, Jaymie M. Matthews, David B. Guenther, Anthony F.J. Moffat, Dimitar Sasselov, Werner W. Weiss, 2007 The differential rotation of κ^1 Ceti as observed by *MOST*, *ApJ*, 659, 1611–1622.
141. Croll, Bryce; Matthews, Jaymie M.; Rowe, Jason F.; Kuschnig, Rainer; Walker, Andrew; Gladman, Brett; Sasselov, Dimitar; Cameron, Chris; Walker, Gordon A. H.; Lin, Douglas N. C.; and 4 coauthors, 2007, Looking for Giant Earths in the HD 209458 System: A Search for Transits in *MOST* Space-based Photometry, *ApJ*, 658, 1328–.
142. Barban, C.; Matthews, J. M.; de Ridder, J.; Baudin, F.; Kuschnig, R.; Mazumdar, A.; Samadi, R.; Guenther, D. B.; Moffat, A. F. J.; Rucinski, S. M.; Sasselov, D.; Walker, G. A. H.; Weiss, W. W., 2007, Detection of solar-like oscillations in the red giant star ϵ Ophiuchi by *MOST* spacebased photometry, *A&A*, 468, 1033–.
143. Gruberbauer, Michael; Kolenberg, Katrien; Rowe, Jason F.; Huber, Daniel; Matthews, Jaymie M.; Reegen, Piet; Kuschnig, Rainer; Cameron, Chris; Kallinger, Thomas; Weiss, Werner W.; Guenther, D. B.; Moffat, A. F. J.; Rucinski, S. M.; Sasselov, D.; Walker, G. A. H., 2007 *MOST* photometry of the RRdLyrae variable AQLeo: two radial modes, 32 combination frequencies and beyond, *MNRAS*, 379, 1498–.
144. Kaminski, Krzysztof Z.; Rucinski, Slavek M.; Matthews, Jaymie M.; Kuschnig, Rainer; Rowe, Jason F.; Guenther, David B.; Moffat, Anthony F. J.; Sasselov,

- Dimitar; Walker, Gordon A. H.; Weiss, Werner W. 2007, *MOST* Photometry and DDO Spectroscopy of the Eclipsing (White Dwarf + Red Dwarf) Binary V471 Tau, *AJ*, 134, 1206–.
145. Rucinski, Slavek M.; Kuschnig, Rainer; Matthews, Jaymie M.; Dimitrov, Wojtek; Pribulla, Theodor; Guenther, David B.; Moffat, Anthony F. J.; Sasselov, Dimitar; Walker, Gordon A. H.; Weiss, Werner W., 2007, Discovery of the strongly eccentric, short-period binary nature of the B-type system HD 313926 by the *MOST* satellite, *MNRAS*, 380, L63–66.
 146. Croll, Bryce; Matthews, Jaymie M.; Rowe, Jason F.; Gladman, Brett; Miller-Ricci, Eliza; Sasselov, Dimitar; Walker, Gordon A. H.; Kuschnig, Rainer; Lin, Douglas N. C.; Guenther, David B.; and 3 coauthors, 2007, Looking for Super-Earths in the HD 189733 System: A Search for Transits in *MOST* Space-based Photometry, *ApJ*, 671, 2129–.
 147. Gruberbauer, M.; Saio, H.; Huber, D.; Kallinger, T.; Weiss, W. W.; Guenther, D. B.; Kuschnig, R.; Matthews, J. M.; Moffat, A. F. J.; Rucinski, S.; Sasselov, D.; Walker, G. A. H., 2008 *it MOST* photometry and modeling of the rapidly oscillating (roAp) star γ Equulei, *A&A*, 480, 223–232.
 148. Shkolnik, Evgenya; Bohlender, David A.; Walker, Gordon A. H.; Collier Cameron, Andrew, 2008, The On/Off Nature of Star-Planet Interactions, *ApJ*, 676, 628–.
 149. Donati, J.-F.; Moutou, C.; Farés, R.; Bohlender, D.; Catala, C.; Deleuil, M.; Shkolnik, E.; Cameron, A. C.; Jardine, M. M.; Walker, G. A. H., 2008, Magnetic cycles of the planet-hosting star τ Bootis, *MNRAS*, 385, 1179–.
 150. Walker, G. A. H.; Croll, B.; Matthews, J. M.; Kuschnig, R.; Huber, D.; Weiss, W. W.; Shkolnik, E.; Rucinski, S. M.; Guenther, D. B.; Moffat, A. F. J.; Sasselov, D., 2008, *MOST* detects variability on τ Bootis A possibly induced by its planetary companion, *A&A*, 482, 691–.
 151. Huber, D.; Saio, H.; Gruberbauer, M.; Weiss, W. W.; Rowe, J. F.; Hareter, M.; Kallinger, T.; Reegen, P.; Matthews, J. M.; Kuschnig, R.; Guenther, D. B.; Moffat, A. F. J.; Rucinski, S. M.; Sasselov, D.; Walker, G. A. H., 2008, *MOST* photometry of the roAp star 10 Aquilae, 483, 239–.

152. Moffat, A. F. J.; Marchenko, S. V.; Zhilyaev, B. E.; Rowe, J. F.; Muntean, V.; Chené, A.-N.; Matthews, J. M.; Kuschnig, R.; Guenther, D. B.; Rucinski, S. M.; S. M.; Guenther, Sasselov, D.; Walker, G. A. H., 2008, *MOST* Finds No Coherent Oscillations in the Hot Carbon-rich Wolf-Rayet Star HD 165763 (WR 111), *ApJ Lett.*, 679, L45–.
153. Miller-Ricci, Eliza; Rowe, Jason F.; Sasselov, Dimitar; Matthews, Jaymie M.; Guenther, David B.; Kuschnig, Rainer; Moffat, Anthony F. J.; Rucinski, Slavek M.; Walker, Gordon A. H.; Weiss, Werner W. 2008, *MOST* Space-based Photometry of the Transiting Exoplanet System HD 209458: Transit Timing to Search for Additional Planets, *ApJ*, 682, 586–.
154. Miller-Ricci, Eliza; Rowe, Jason F.; Sasselov, Dimitar; Matthews, Jaymie M.; Kuschnig, Rainer; Croll, Bryce; Guenther, David B.; Moffat, Anthony F. J.; Rucinski, Slavek M.; Walker, Gordon A. H.; Weiss, Werner W., 2008, *MOST* Space-based Photometry of the Transiting Exoplanet System HD 189733: Precise Timing Measurements for Transits across an Active Star, *ApJ*, 682, 593–.
155. Cameron, C.; Saio, H.; Kuschnig, R.; Walker, G. A. H.; Matthews, J. M.; Guenther, D. B.; Moffat, A. F. J.; Rucinski, S. M.; Sasselov, D.; Weiss, W. W., 2008, *MOST* Detects SPBe Pulsations in HD 127756 and HD 217543: Asteroseismic Rotation Rates Independent of vsini, *ApJ*, 685, 489–.
156. Walker, Gordon A. H., 2008, Recent *MOST* space photometry, *JPhCS*, 118a, 2013–.
157. Guenther, D. B.; Kallinger, T.; Gruberbauer, M.; Huber, D.; Weiss, W. W.; Kuschnig, R.; Demarque, P.; Robinson, F.; Matthews, J. M.; Moffat, A. F. J.; A. F. J.; Rucinski, S. M.; Sasselov, Walker, G. A. H., 2008, The Nature of p-modes and Granulation in Procyon: New *MOST* Photometry and New Yale Convection Models, *ApJ*, 687, 144–.
158. Pribulla, Theodor; Rucinski, Slavek; Matthews, Jaymie M.; Kallinger, Thomas; Kuschnig, Rainer; Rowe, Jason F.; Guenther, David B.; Moffat, Anthony F. J.; Sasselov, Dimitar; Walker, Gordon A. H.; Weiss, Werner W., 2008, *MOST* satellite photometry of stars in the M67 field: eclipsing binaries, blue stragglers and δ Scuti variables, *MNRAS*, 391, 343–.
159. Hareter, M.; Kochukhov, O.; Lehmann, H.; Tsymbal, V.; Huber, D.; Lenz, P.; Weiss, W. W.; Matthews, J. M.; Rucinski, S.; Rowe, J. F.; Kuschnig, R.;

- Guenther, D. B.; Moffat, A. F. J.; Sasselov, D., Walker, G. A. H., Scholtz, A., 2008, *MOST* discovers a multimode d Scuti star in a triple system: HD 61199, *A&A*, 492, 185–.
160. Rowe, Jason F.; Matthews, Jaymie M.; Seager, Sara; Miller-Ricci, Eliza; Sasselov, Dimitar; Kuschnig, Rainer; Guenther, David B.; Moffat, Anthony F. J.; Rucinski, Slavek M.; Walker, Gordon A. H.; Weiss, Werner W., 2008, The Very Low Albedo of an Extrasolar Planet: *MOST* Space-based Photometry of HD 209458, *ApJ*, 689, 1345–.
161. Walker, Gordon A. H., 2008, The First High-Precision Radial Velocity Search for Extra-Solar Planets, arXiv0812.3169.
162. Rucinski, Slavek M.; Matthews, Jaymie M.; Kuschnig, Rainer; Pojmanski, Grzegorz; Rowe, Jason; Guenther, David B.; Moffat, Anthony F. J.; Sasselov, Dimitar; Walker, Gordon A. H.; Weiss, Werner W., 2008, Photometric variability of the T Tauri star TW Hya on time-scales of hours to years, *MNRAS*, 391, 1913–.
163. Zwintz, K.; Kallinger, T.; Guenther, D. B.; Gruberbauer, M.; Huber, D.; Rowe, J.; Kuschnig, R.; Weiss, W. W.; Matthews, J. M.; Moffat, A. F. J.; Rucinski, S.; Sasselov, D., Walker, G. A. H., Casey, M.P., 2009, *MOST* photometry of the enigmatic PMS pulsator HD 142666, *A&A*, 494, 1031–.

II. NON-REFEREED PUBLICATIONS

1. Goldberg, B.A., Walker, G.A.H., Rotem, Z., 1973, "Refrigeration of Detectors Used in Astronomy", Proc. of the 4th Canadian Congress of Appl. Mechanics, 809.
2. Fahlman, G.G., Glaspey, J.W., Jensen, O., Walker, G.A.H., Auman, J.R., 1973, "Attempt to Measure Stellar Magnetic Fields Using a LLTV Camera", Proc. of I.A.U. Colloq. on Planets, Stars, and Nebulae Studies with Photo-Polarimetry, 237-245 (ed. Gehrels).
3. Buchholz, V., Walker, G.A.H., Auman, J.R., Isherwood, B., 1973, "Characteristics of the U.B.C. T.V. Systems", Proc. of Symp. Astron. Observations with T.V.-type Sensors, 199-217.

4. Walker, G.A.H., 1977, "Spectrophotometry with television-type detectors", RASC Journ. 71, 139-151.
5. Walker, G.A.H., Buchholz, V., Fahlman, G.G., Glaspey, J.W., Lane-Wright, D., Mochnacki, S., Condal, A., 1977, "The UBC diode array systems", Proc. IAU Col. 40, 24-1 to 24-24, (ed. Duchesne and Lelievre, Obs. de Paris).
6. Fahlman, G.G., Mochnacki, S.W., Pritchett, C., Condal, A., Walker, G.A.H., 1979, "Astronomical imagery with solid state arrays", Adv. in electronics and electron physics, Seventh symp. on phot. elec. image devices (Ed. McMullen and Morgan) 52, 453-462.
7. Campbell, B., Condal, A., Fahlman, G.G., Hickson, P., Lakshmi, A., Nicholls, R., Pritchard, H., Pritchett, C., Walker, G.A.H., 1979, "CCD detectors for astronomy", Fifth int. conf. on charge-coupled devices (Ed. J. Mavor, Edin. Univ.) 40-44.
8. Campbell, B., Walker, G.A.H., Johnson, R., Lester, T., Yang, S., Auman, J., 1981, "Precision radial velocities and residual problems with Reticon arrays", SPIE 290, 215-218.
9. Walker, G.A.H., Yang, S., Fahlman, G.G., 1981, "Spectral variations in ζ Ophiuchi related to a disc, rotation or non-radial pulsations?", Workshop on Pulsating B stars Nice Obs. 261-266.
10. Walker, G.A.H., Moyles, K-A., Yang, S., Fahlman, G.G., 1981, "The line profile variations of Spica", Proc. Workshop on pulsating B stars Nice Obs. 141-149.
11. Walker, G.A.H., March 1983., "Hydrogen fluoride absorption cell precision radial velocity technique", invited paper at workshop on 'planetary detection', NASA Ames
12. Yang, S., Walker, G.A.H., 1983, "Spectroscopic variations of δ Scuti variables", proceedings of workshop on 'rapid variability of early type stars', Hvar Obs. Bull. 7, 309-322.
13. Fraser, G., Yang, S., Walker, G.A.H., 1983, "The line profile variations of Spica", proceedings of workshop on 'rapid variability of early type stars', Hvar Obs. Bull. 7, 231-240.

14. Ninkov, Z., Yang, S., Walker, G.A.H., 1983, "Spectroscopic variations in γ Cass and ζ Oph", proceedings of workshop on 'rapid variability of early type stars', Hvar Obs. Bull. 7, 167-187.
15. Millward, C.G., Walker, G.A.H. 1983, A new $H\gamma$ - absolute magnitude calibration, presented at 'MK spectral classification: criteria and applications' Univ. of Toronto.
16. Walker, G.A.H., Johnson, R., Yang, S., 1985, June "Low(est) noise reticon detection systems", Adv. in Electronics and Electron Physics, (Academic Press) 64A, 213-221.
17. Walker, G.A.H., Amor, J., Yang, S., Campbell, B., 1984, "Precise radial velocities and radial velocity standards", IAU Symposium 111 'Calibration of fundamental stellar quantities', (Reidel), D.S. Hayes et al. (eds), 587-9.
18. Walker, G.A.H., Johnson, R., Christian, C.A., Waddell, P., Kormendy, J., 1984, "The CFHT CCD Detector", SPIE 501, 353-358.
19. Walker, G.A.H., Ninkov, Z., Yang, S., 1984, "An absence of Balmer line emission from Vega", Bull. d'Inf. Etoiles Be No. 10, 3-6.
20. Campbell, B., Walker, G.A.H., 1984, "Stellar Radial Velocities of High Precision-Techniques and Results", IAU Colloquium 88.
21. Campbell, B., Walker, G.A.H., Pritchett, C., Long, B., 1985, "The search for low-mass stellar companions with the HF precision velocity technique", invited review at workshop on the astrophysics of brown dwarfs, Fairfax.
22. Campbell, B., Walker, G.A.H., Yang, S., 1987, "A search for planetary mass companions to nearby stars" - IAU Coll. No. 99 'Bioastronomy - the next steps', Hungary .
23. Walker, G.A.H., B-and Be- stars - invited review ESO workshop on rapid variability of OB stars: nature and diagnostic value - Garching 15-17 October, ed. D. Baade, 1990.
24. Zehnder, A., Bialkowski, J., Buhler, P., Morenzoni, E., Schlumpf, W., Schoeps, K., Thomsen, K., Courvoisier, T., Orr, A., Chesalin, L., Dremin, V., Stepanov, D., Sunayev, R., Siegmund, O.H.W., Vallergera, J.V., Vedder, P.W., Chakrabarti, S., Warren, J., Bonanno, G., Walker, G.A.H., and Lund, K., 1990, EUVITA,

An extreme UV imaging telescope array on the spectrum-X-G satellite, SPIE International Symposium on Opto Electronic Applied Science and Engineering.

25. Walker, G.A.H., 1990, Instabilities and oscillations of B and Be stars, proceedings of Musicos workshop, Meudon.
26. Walker, G., Bohlender, D., Richardson, D., Walker, A., Irwin, A., Yang, S., 7 October, 1991, A decade searching for stellar planetary companions with the HF technique, 42nd Congress of the International Astronautical Federation, Montreal.
27. Larson, A.M., Irwin, A.W., Yang, S.L.S., Goodenough, C., Walker, G.A.H., Bohlender, D.A., Walker, A.R. July, 1992, The RV variability of Yellow Giants, IAU Colloquium, Victoria.
28. Kennelly, E.J., Matthews, J.M., Walker, G.A.H., July 1992, High and low-degree modes in Delta Scuti stars: 1 and 2 D Fourier analysis of τ Peg, IAU Colloquium 139, Victoria.
29. Walker, G.A.H., April 1992, Precise Radial Velocities, invited review IAU Colloquium 135, Atlanta.
30. Walker, G.A.H., CFHT, May 1992, 8-m Telescopes, surveys from space, invited review presented at CFHT Users meeting, UVic.
31. Matthews, J.M., Wehlau, W.H., Rice, J., Walker, G.A.H., 1992, Atmospheric structure of pulsating Ap stars from rapid multicolor photometry, IAU Colloquium 137.
32. Walker, G.A.H., Doppler searches for planetary systems, invited review, symposium 'Towards other planetary systems', 1993, Astrophysics and Space Science, 223, 103-107.
33. Hickson, P., Walker, G.A.H., Borra, E.F., Cabanac, R., A 2.7m Liquid-mirror telescope, SPIE meeting, Kona, April 1994.
34. Walker, G.A.H., A solar system next door, Nature 382, 23-4, 1996.
35. Walker, G.A.H., One of our planets is missing, Nature 385, 775-6, 1997.

36. Hickson, P., Borra, E., Cabanac, R., Chapman, S., de Lapparent, V., Mulrooney, M., Walker, G., The large zenith telescope project - a 6-meter mercury-mirror telescope, SPIE meeting, Kona, April 1998
37. Walker, G.A.H., Challenges for the new millenium - some persistent astronomical mysteries, Beales lecture to CASCA, Quebec May 1998, <http://www.astro.ubc.ca/Cass/JS-98/>
38. Walker, G.A.H., rewiew of: Electronic imaging in astronomy: detectors and instrumentation, by Ian McLean, Physics Today, June 1998, 6,
39. Walker, G.A.H., Retrospect (closing summary, IAU Coll 170, June 1998), PASP Symposium series, in press, 1998.
40. Walker, G.A.H., Chapman, S., Mandushev, G., Racine, R., Nadeau, D., Doyon, R., Véran J-P.,1999, Shades of black - searching for brown dwarfs and giant planets, ESO/OSA Topical Meeting (Sonthofen, Germany, Sept 1998), Astronomy with Adaptive Optics, (ed. Bonacinni, D.) 449-458.
41. Walker, G.A.H., Chapman, S., Mandushev, G., Racine, R., Nadeau, D., Doyon, R., Véran J-P.,1999, Shades of black - searching for brown dwarfs and giant planets, ESO/OSA Topical Meeting (Sonthofen, Germany, Sept 1998), Astronomy with Adaptive Optics, (ed. Bonacinni, D.) 449-458.
42. Chapman, S.C., Walker, G.A.H., Morris, S.L., 1999, The core structure of AGN: perils of adaptive optics artifacts, ESO/OSA Topical Meeting (Sonthofen, Germany, Sept 1998), Astronomy with Adaptive Optics, (ed. Bonacinni, D.), 73-82.
43. Matthews, J.M., Kuschnig, R., Lanting, T., and Walker, G.A.H. 1999, Ultraprecise photometry from space: Simulations of the MOST space telescope performance, paper presented at CASCA AGM.
44. Matthews, J.M., Kuschnig, R., Walker, G.A.H., Johnson, R., Pazder, J., Shkolnik, E., Skaret, K., Lanting, T., Morgan, J.P., Sidhu, S., Sinclair, P., Sturgeon, D., Harron, J., and Burley, G. 1999, The MOST space mission: A 15-cm telescope in the 8-m-class era, paper presented at CASCA AGM.
45. Walker, Gordon A. H., 2000, From I See to IC: The Perfection of Astronomical Detectors, PASP, 112, 751-752

46. Hildebrand, A.R.; Carroll, K.A.; Balam, D. D.; Cardinal, R. D.; Matthews, J. M.; Kuschnig, R.; Walker, G. A. H.; Brown, P. G.; Tedesco, E. F.; Worden, S. P.; Burrell, D. A.; Chodas, P. W.; Larson, S. M.; Spahr, T. B.; Wallace, B. J.; 2001, The Near-Earth Space Surveillance (NESS) Mission: Discovery, Tracking, and Characterization of Asteroids, Comets, and Artificial Satellites with a Microsatellite, Lunar and Planetary Science Conference, 32, 1790.
47. Marois, C., Nadeau, D., Doyon, R., Racine, R., Walker, G.A.H., 2003, Searching for faint companions with the TRIDENT differential simultaneous imaging camera, ASP Conf Series, 294 (ed. D. Deming, S Seager) 103–106.
48. Marois, C., Nadeau, D., Doyon, R., Racine, R., Walker, G.A.H., 2003, Differential simultaneous imaging and faint companions: TRIDENT first results from CFHT, IAU Symp., 211, in press (ed. E.L. Martín).
49. Walker, G.A.H., Yang, S., Puxley, P., Ramsay Howat, S., Bohlender, D., 2003, A Doppler search for habitable planets of ϵ Indi B, Toward other Earths: DARWIN/TPF, Heidelberg, Germany, 22–25 April 2003, (ESA SP-539, October 2003) p647.
50. Volk, K., Blum, R., Walker, G.A.H., Puxley, P., 2003, epsilon INDI B, IAU Circular 8188.
51. Hildebrand, A.R., K.A. Carroll, E.F. Tedesco, D.R. Faber, R.D. Cardinal, J.M. Matthews, R. Kuschnig, G.A.H. Walker, B. Gladman, J. Pazder, P.G. Brown, S.P. Worden, D.A. Burrell, P.W. Chodas, S.M. Larson, B.J. Wallace, K. Muinonen, A. Cheng, 2004, IAC-04-IAA.999 ‘The Canadian Near Earth Space Surveillance (NESS) Microsatellite Project will Discover and Track Low Delta V near-Earth Asteroids by Observing at Low Solar Elongations’
52. G.A.H. Walker, Cassiopeia December 2004 ‘25 years of spectacular discoveries with the CFHT coude spectrographs - it was all in the detail’
53. Hildebrand, A. R.; Tedesco, E. F.; Carroll, K. A.; Cardinal, R. D.; Matthews, J. M.; Kuschnig, R.; Walker, G. A. H.; Gladman, B.; Kaiser, N. R.; Brown, P. G.; Larson, S. M.; Worden, S. P.; Wallace, B. J.; Chodas, P. W.; Muinonen, K.; Cheng, A.; Gural, P., 2007 The Near Earth Object Surveillance Satellite (NEOSSat) Mission Enables an Efficient Space-Based Survey (NESS Project) of Interior-to-Earth-Orbit (IEO) Asteroids, 38th Lunar and Planetary Science

Conference, (Lunar and Planetary Science XXXVIII), held March 12-16, 2007 in League City, Texas. LPI Contribution No. 1338, p.2372

54. Walker, Gordon A. H., 2007, In search of other worlds, COSMOS, 16, 20-21
55. Walker, Gordon A. H., 2008, Digital Television and Precision Spectroscopy with the McKellar Spectrograph in the 1970s, JRASC, 102, 179.
56. Walker, Gordon, 2008, Extrasolar planets: With a coarse-tooth comb, Nature, 452, 538.

III. PROPOSALS, STUDIES & REPORTS

Osmer, P., Davies, R., Walker, G., October 1991, Gemini: Draft Scientific Requirements.

Walker, G.A.H., 1991, (J. Matthews, G. Grieve, co-editors), Gemini-Twin 8 Metre Telescopes - A Proposal for International Collaboration, 131 pages.

Walker, G.A.H., Matthews, J., 1991, Canada's Astronomers prepare to look further into space than ever before. Les astronomes canadiens se preparent a sondé les profondeurs de l'espace. Two brochures promoting the Gemini project.

Walker, G.A.H., 1990, Asteroseismology with an 8 m telescope.

Walker, G.A.H., Johnson, R., Grieve, G., Glaspey, J., Salmon, R., Gregory, T., Be'land, S., 1990, Reticon Fix, CFHT Bulletin, 22, 5-6.

Campbell, B., Harris, W., Morton, D., Walker, G.A.H., Assessment of the proposed High Resolution Telescope for Canada - CAS report June 1987.

Christian, C., Vigroux, L., Walker, G.A.H., 1985, CFHT CCDs: Considerations for the future: for CFHT Scientific Advisory Committee.

Walker, G.A.H., 1985, The choice of next generation detectors for CFHT: for CFHT SAC.

Walker, G.A.H. (Project Scientist): Starlab-Level I Scientific Requirement Document 1983 December 1.

Walker, G.A.H., Hickson, P., Auman, J.R., 1982., Stellar photometry and astrometry with Starlab: a simulation, for Starlab Joint Scientific Working Group

Campbell, B., Walker, G.A.H., 1979, A Canadian Space Telescope: for CCSS.

Campbell, B., Walker, G.A.H., 1979, The ultra-violet sensitisation of solid-state imaging devices: for CCSS.

IV. BOOKS

'Astronomical Observations: an optical perspective,' a senior level text book, eight chapters, 360 pages, 221 figures, completed September 1985. Publisher Cambridge University Press. Published January 1987, second printing late 1987.

Russian edition of 'Astronomical Observations' 1990, 5,000 copies.

Astronomical Observations with Television-type Sensors Proceedings of Symposium held at UBC May 1973 Editors G.A.H. Walker and J.W. Glaspey.